



130~

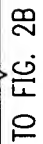
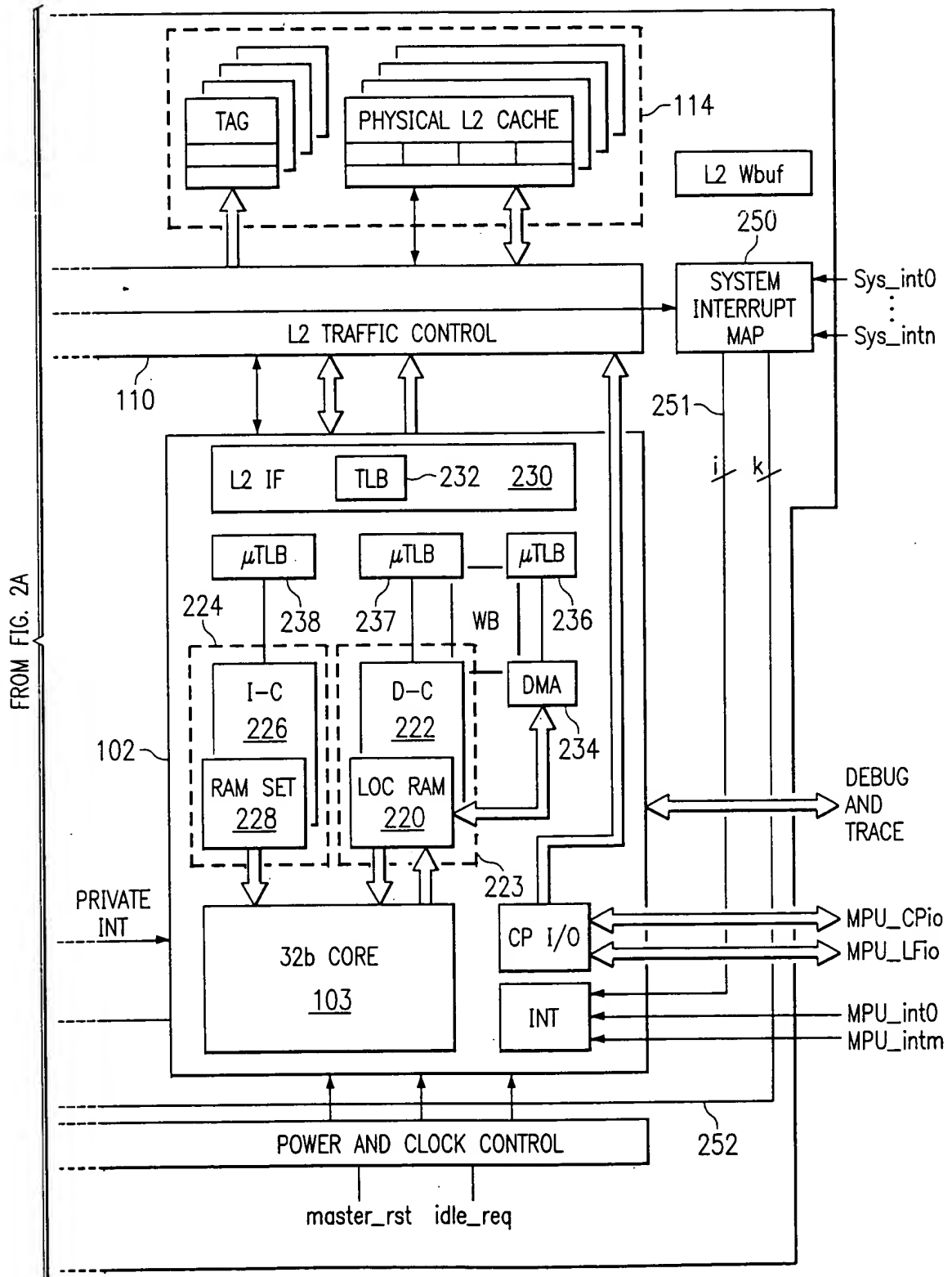


FIG. 2B



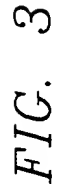




FIG. 5

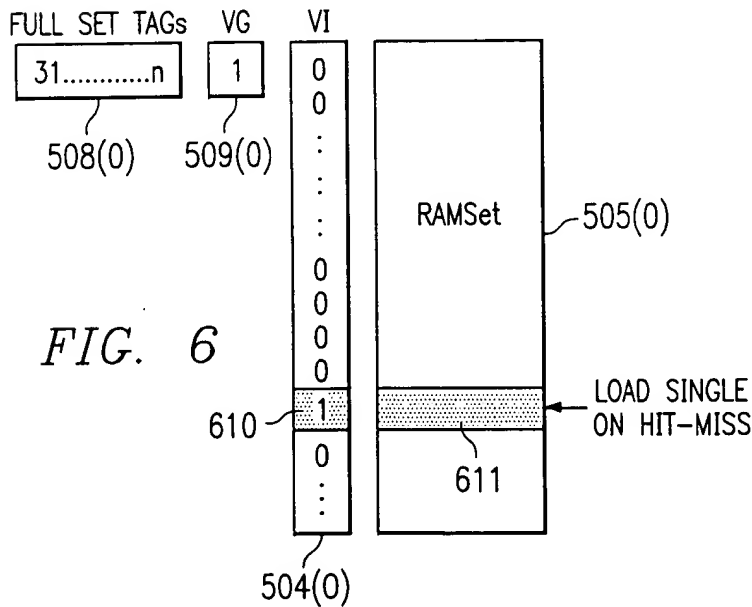
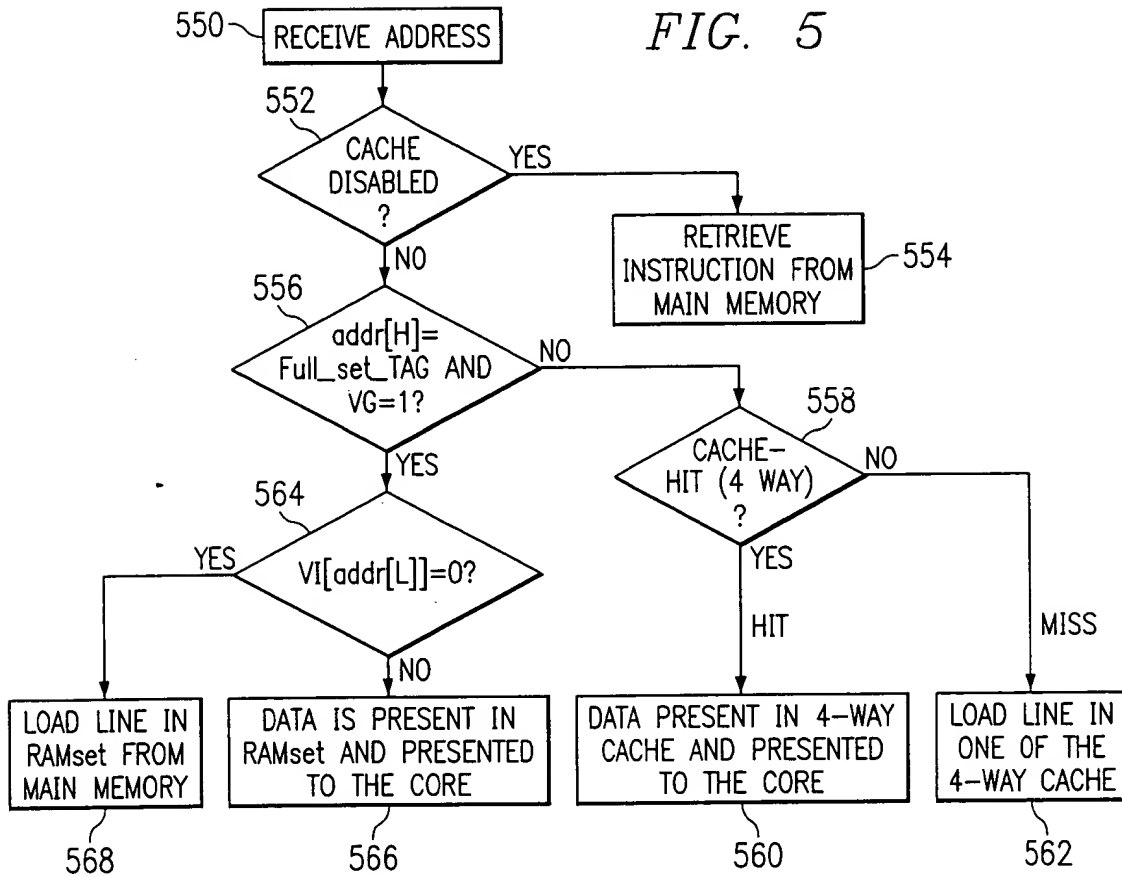


FIG. 6

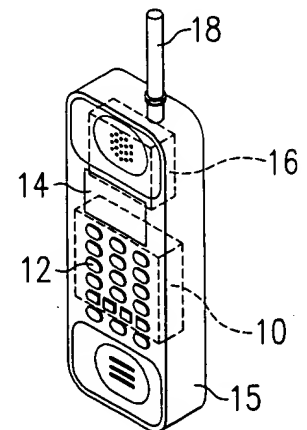


FIG. 19

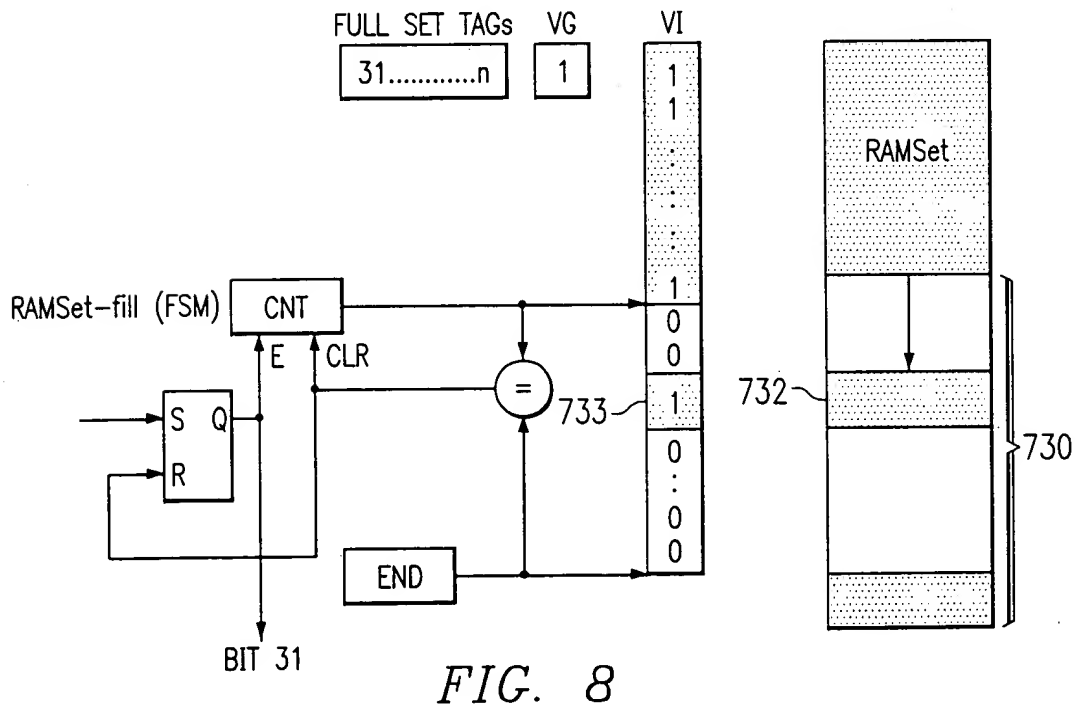
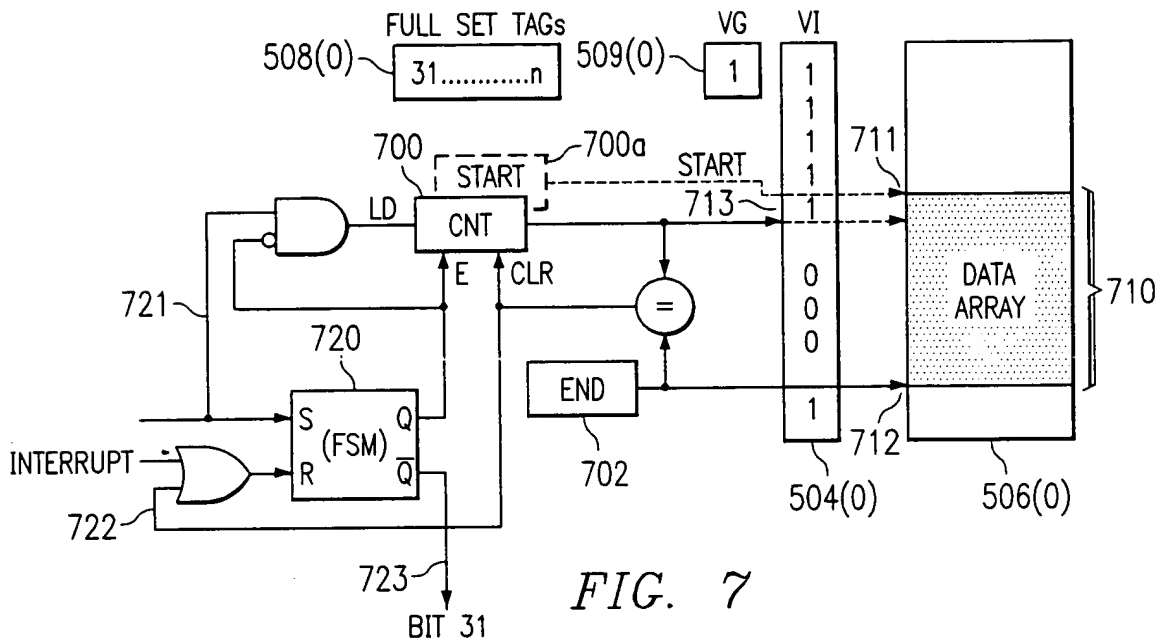


FIG. 9

```
graph TD
    900[INITIATE OPERATION] --> 902{VALID LINE?}
    902 -- YES --> 903
    902 -- NO --> 904[FETCH ONE LINE MARK AS VALID LINE]
    904 --> 903
    903 --> 906{END OF BLOCK?}
    906 -- YES --> 910[BLOCK COMPLETE]
    906 -- NO --> 908[NEXT ADDRESS]
    908 --> 902
```

The flowchart illustrates the block transfer process. It begins with an entry point leading to block 900, "INITIATE OPERATION". From 900, the flow proceeds to decision diamond 902, "VALID LINE?". If the answer is "YES", the flow goes to block 903. If "NO", it goes to block 904, "FETCH ONE LINE MARK AS VALID LINE", which then connects to block 903. Block 903 leads to decision diamond 906, "END OF BLOCK?". If "YES", the process ends at block 910, "BLOCK COMPLETE". If "NO", the flow goes to block 908, "NEXT ADDRESS", which loops back to the entry point before diamond 902. A side process starts at block 920, "DATA REQUEST", leading to decision diamond 922, "MISS?". If "NO", it exits to the right (labeled 923). If "YES", it goes to decision diamond 924, "VALID END?". If "YES", it connects to block 903. If "NO", it goes to block 926, "FETCH ONE LINE MARK AS VALID LINE", which also connects to block 903.

```

graph TD
    Start(( )) --> 1200[INITIATE OPERATION]
    1200 --> 1202{VALID END?}
    1202 -- YES 1203 --> 1214{DIRTY LINE?}
    1202 -- NO 1204 --> 1204{DIRTY LINE?}
    1214 -- YES 1214 --> 1216[WRITE LINE TO SECONDARY MEMORY]
    1214 -- NO 1204 --> 1204
    1204 -- YES 1204 --> 1206[WRITE LINE TO SECONDARY MEMORY]
    1204 -- NO 1204 --> 1218{END OF BLOCK?}
    1216 --> 1218
    1206 --> 1218
    1218 -- YES 1218 --> 1210([OPERATION COMPLETE])
    1218 -- NO 1218 --> 1220[NEXT ADDRESS]
    1220 --> End(( ))
  
```

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FIG. 10

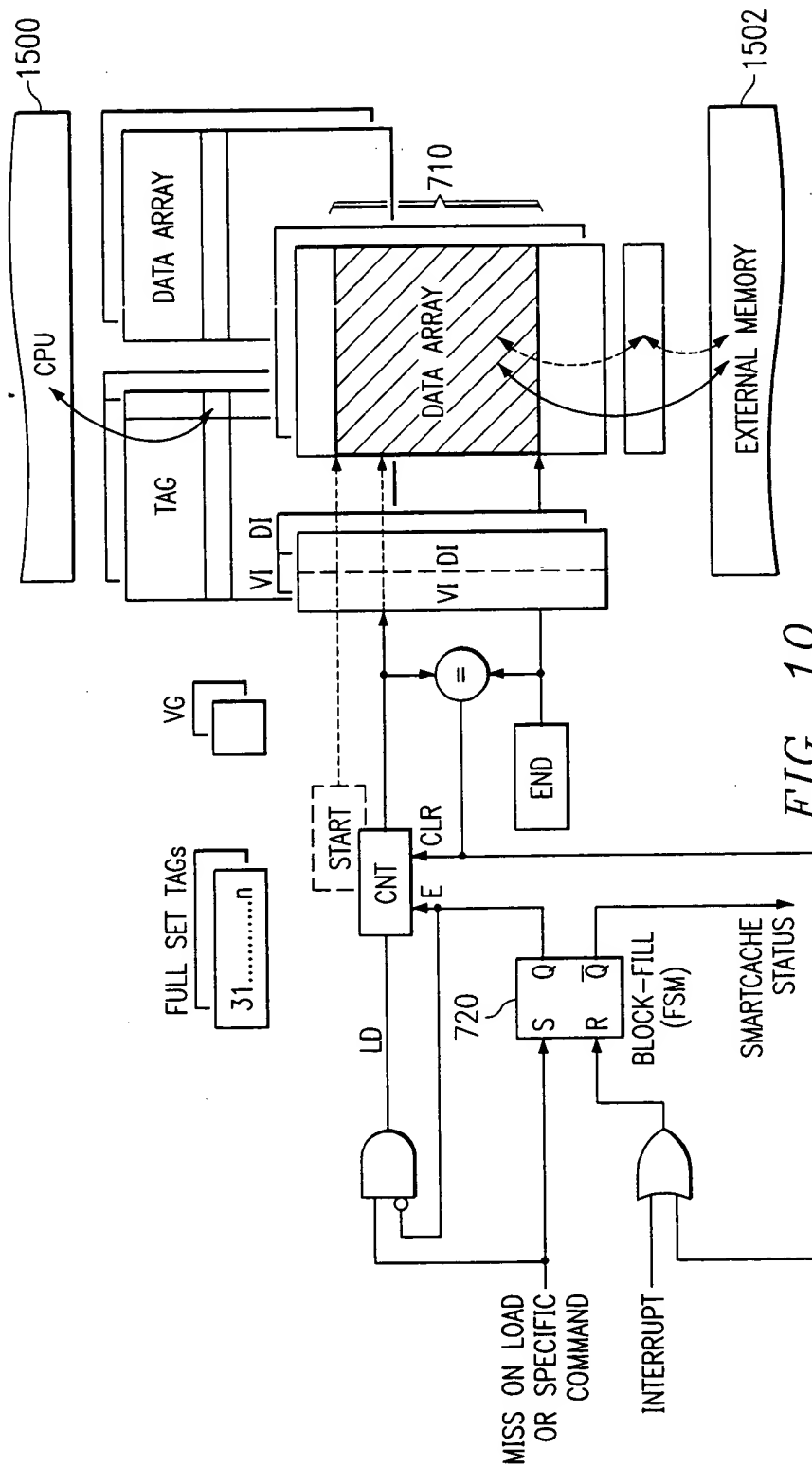


FIG. 10

TABLE 1

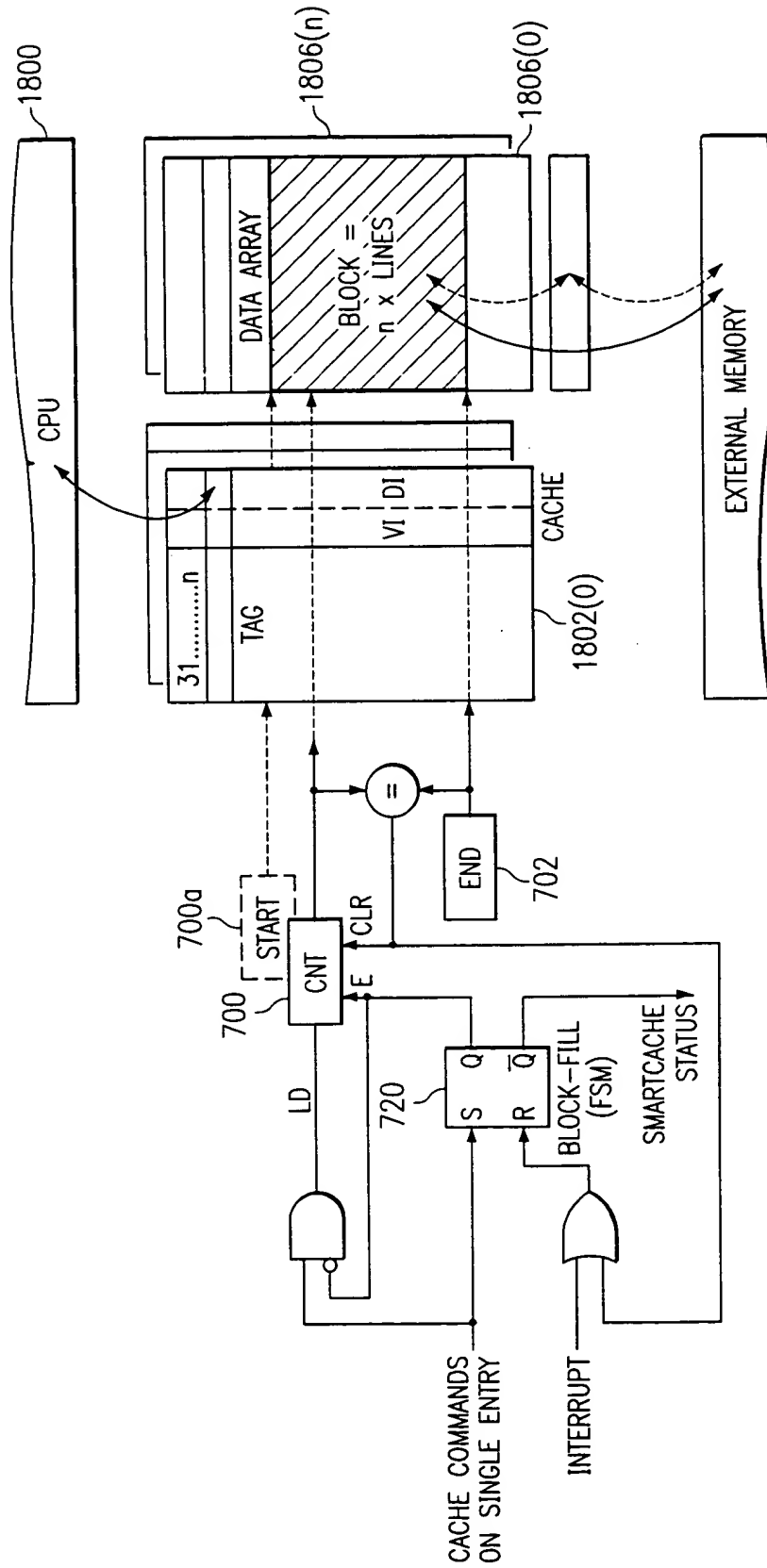


FIG. 11

FIG. 13A

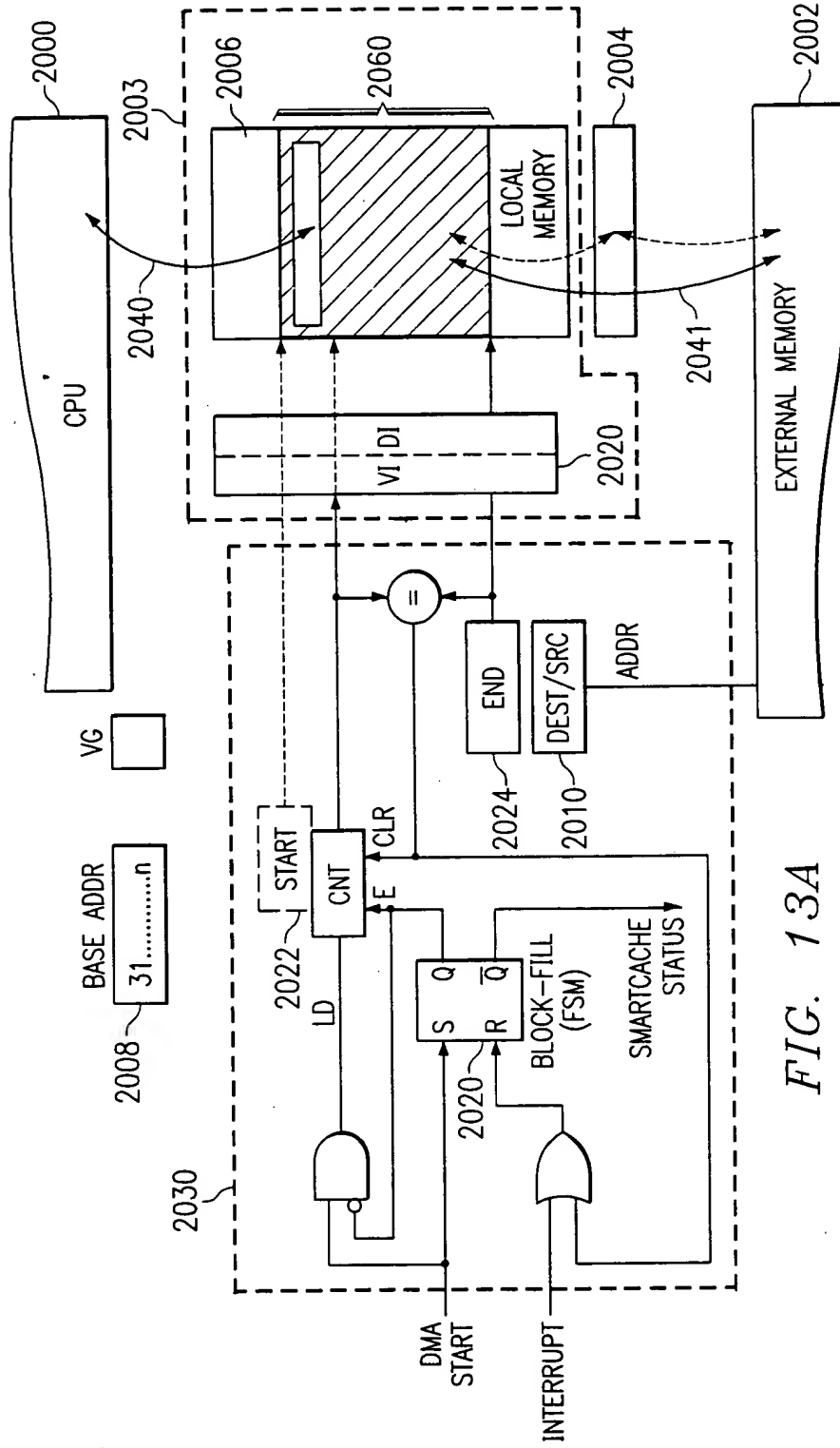


FIG. 13A



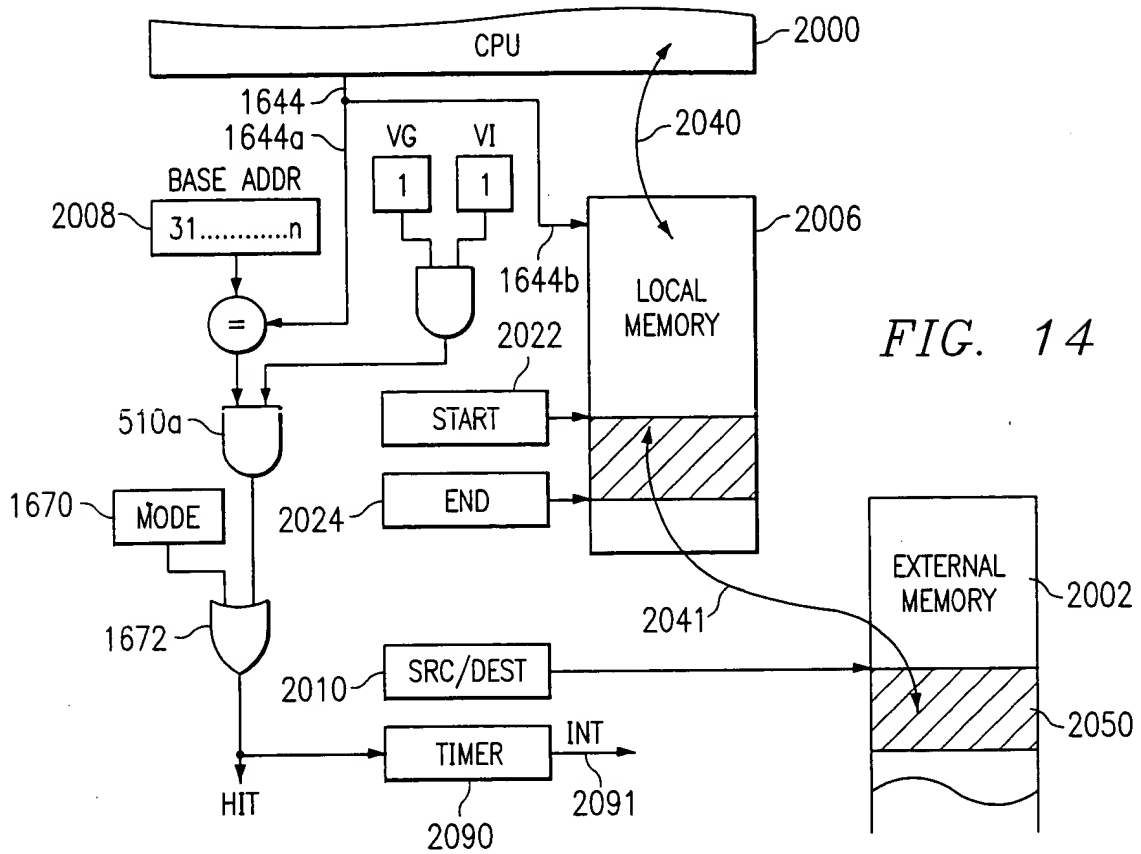


FIG. 14

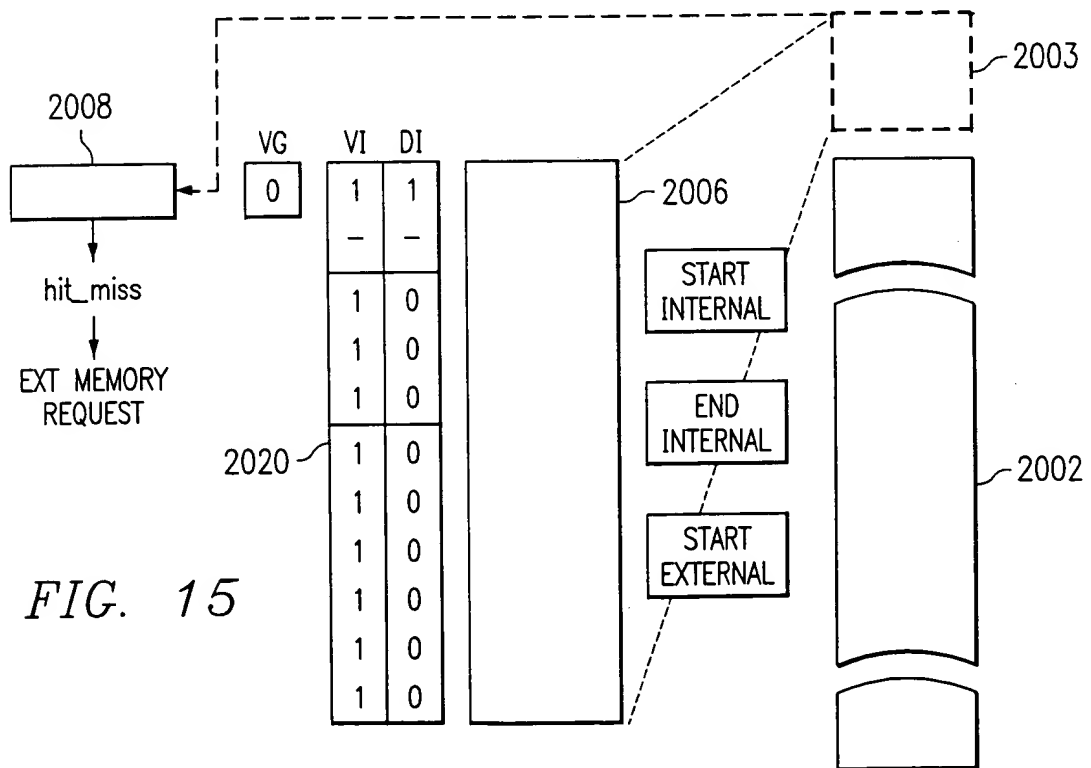


FIG. 15

